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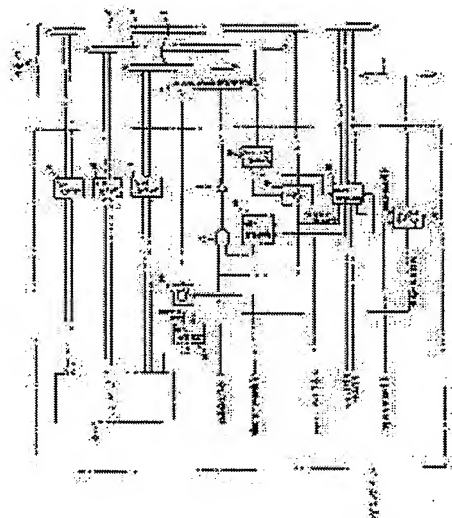
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(54) **MULTI-PROCESSOR SYSTEM**

(57)Abstract:

PURPOSE: To prevent the total discontinuation of a multi-processor system by separating logically only a processor having a fault from the system
CONSTITUTION: When a processor P has a fault among plural processors, a fault occurrence signal is delivered to a system state monitor signal line from the processor P. An optional processor monitoring the state of said signal line decides the occurrence of the fault with detection of the fault occurrence signal. A processor detecting means calls successively other processors to detect and specify a faulty one and gives the control commands to the faulty processor for stopping, resetting, interruption inhibiting actions, etc., based on the address signal of an address bus (a) and the data of a data bus (d). Thus the faulty processor stops the operation of a CPU, etc., resets each part and inhibits the interruptions supplied from an input/output control part, etc., based on the given control commands. Then the faulty processor is separated logically from a multi-processor system.

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